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>muCRAM-2
CAGAAATTCGGCAGAGGTCCTGGGGCGGGGGCGACCTACGGGTTCTCCCTCAAGAGCTAATCTCTGCC
GCCACTCGCTTAGGACCTCGGACACCGGTCCTCGGTCCACGCCCTCCCTCAACCTCTTCCACCCCTT
CAAGAAGGACTGTCCAGACACACGTCCTAGGGCCAGAGACCTGCCCTCCACGACAGTCCGCTGGAGACA
CCCCAGACCGGAGACTGACATCGGACAGGACCGCCCTCTGCTTCCACTCTCAGSGACCTCTCTCTG
CTCCGCGCGGGGAGTGTCTGGGAGACCCAGCCGCTCTCGGCTCTCTGAGGGGACCTCAGCTAGG
CAGCCAGCTGGGCGCGGTAGATGGCGAGGAGCCCAAGGCTCTCTGATGCTCTGCTGCTACACTACT
TGATCGTCCCTGGACTATCATAAGGCAATGGGTTTCTGCTATCAAAAGACCACTCTCAAGAGTCA
GTAATAGAGTTCGAAGGCTATTTGGCTGTGTAACCCCAAGAGACTACCTCTCCAGACTGGAGTG
GAAGAGGTTGGACAGGGGCTCTCTGCTTACTACCAACAGGCTCTCCAAAGTGTACTTTAAAGACCTGTG
CTGAGATGATAGATTTCAATATACGAATCAAAATGTTACAAAGAGTGTCTGAGAGTATCGCTGTGAA
GTGAGGCTCCGACTGAGCAAGGCCAGAACCTGCGAGAGATAAGTCAATGCTAGAGTACGATGCCAGGATA
TGCTGTTCTGCTGTGAGTGGCTACTTCTGTTATGACTGGAGTGTGGTGGAGTTCGCTAGGAAATCCAAAGGC
AGAAGGAACCCAGCTCCGAGTACATCTGGTTTAAAGATGGCAAAATCTGCAATTCACATGATTTCCAA
GGCACACACACAGCTCGTACACAAATGAACACGAATCTGTCGACACCGAGTGGCTTCCAGAGCGAA
GATGACAGTGGAGATTAATCTGCAAGCCGACCTCTGTCGACACCGAGTGGCTTCCAGAGCGAA
TGCAAGTAGATGTTCTCAACATAGCGGCTCATAGCAACGGTGTGGTGGCTTCTGATTTCTGTA
TGTGGCTTGGCAGATGCTATGCTCAGAGGAAAGGCTACTTTTCAAAAGAAATCTCTCCAGAGGCGAG
TCCTGCATCTAAAGTCACTACGATGGGCGAAATGATTTTCAAGGACACAAATCTCTTATAATTTAAAGA
ATTCCAGTTTGGGCTGCCAAACCGAGTTGTCAATGTTAATAAATTTAATAAATCTCTGCTTACA
CTTGCAGAGTGTAGAAATATGAAGGGGAGTTTATGATCTCTAATCTCAAGAAAT
ATTTAAGCAAAACGTTCTTCCATCACTAATTAACACCTGGCTTGTGTGACCTAAAGGAAATGTC
TGGTAATATCTGTTTGAAGGCAATGAATGTGAGTTGGAGTTGACTATATCACACTGCTGTAAGG
CTAATCCAGAGCAAGATATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATTC

FIG. 1B

APPROVED	O.G. FIG.	
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APPROVED	O.G. FIG.	
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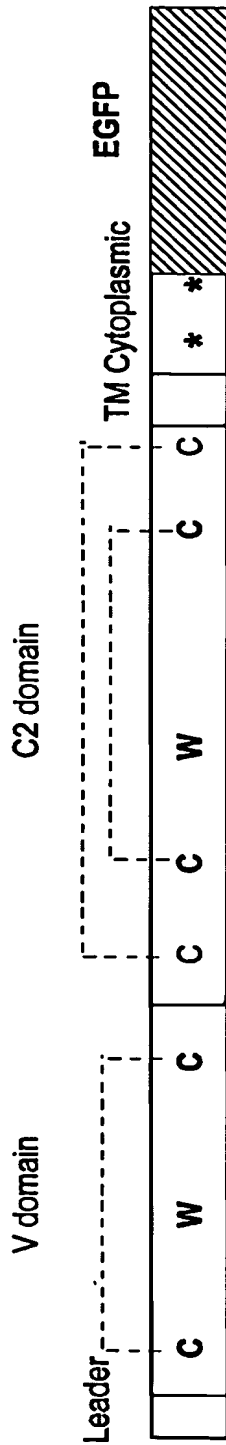
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QPS₂₈₅-EGFP
 DGV₂₉₁-EGFP
 KVT₂₈₃-EGFP

JAM-EGFP
 CRAM-1-EGFP
 CRAM-2-EGFP

Tac Leader Tac Tac TM



Tac-JAM
 Tac-CRAM-1
 Tac-CRAM-2
 Tac-W₂₅₈FAY....
 Tac-C₂₈₄CAY....
 Tac-C₂₅₉YAQ....

FIG. 2A



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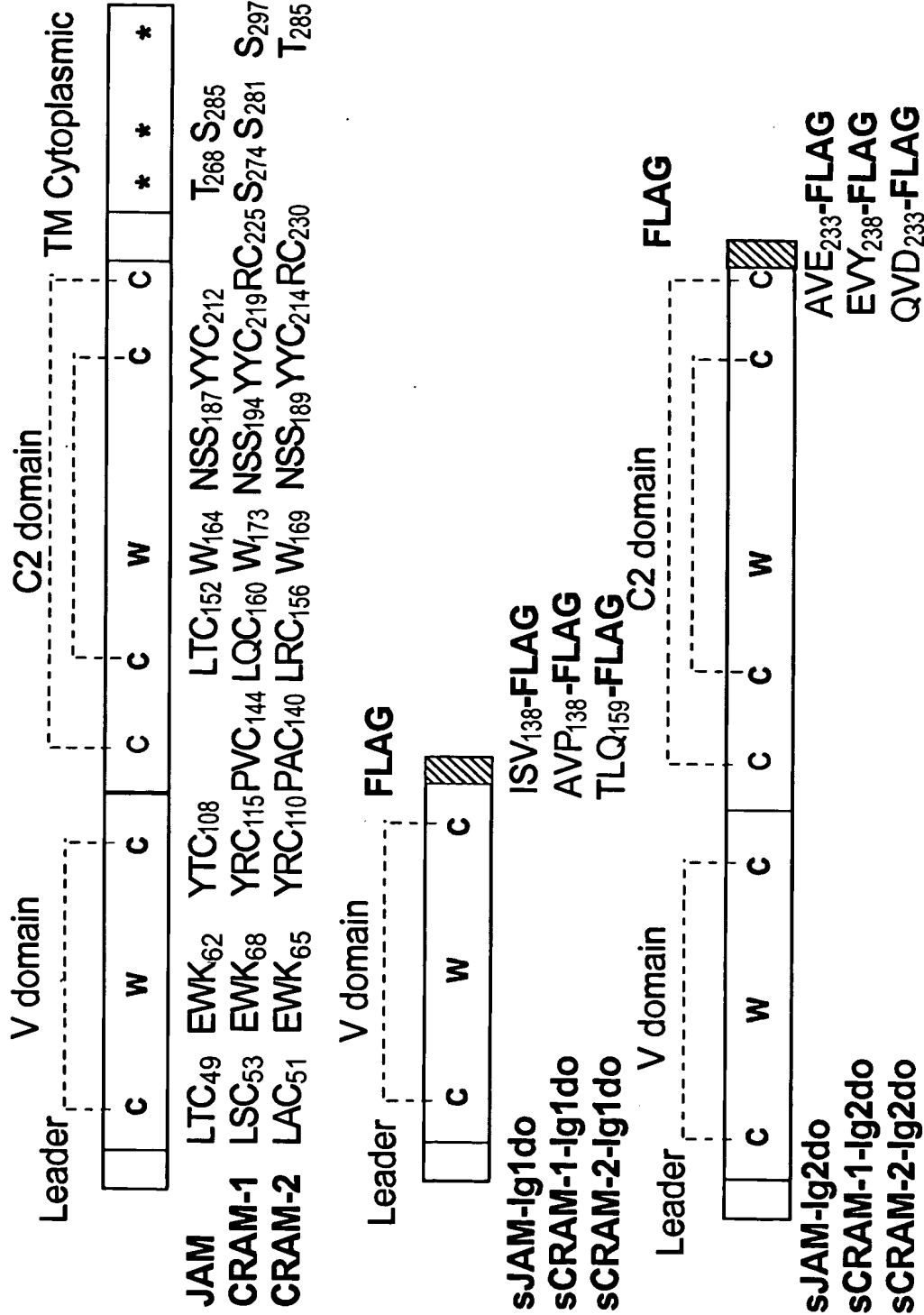


FIG. 2B

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MALSRRLRLR	LYARLPHFFL	LLFRGCMIE	AVNLKSSNRN	PVHEFESVE
MARSPQGL	LMLLLHYLI	VALDYHKANG	FSASKDHRQE	VTVIEFQEAI
LSCIITHSQT	SDPRIEWKKI	QDGQTTYVYF	DNKIQGDLAG	RTDVFGKTSL
LACK-TPKKT	TSSRLEWKKV	GQG-VSLVYY	QQALQGDFKD	RAEMID-FNI
RIWNVTRSDS	AIYRCEVVAL	NDR-KEVDEI	TIELIVQVKP	VTPVCRIPAA
RIKNVTRSDA	GEYRCEVSAP	TEQGQNLQED	KVMLEVLVAP	AVPACEVPTS
VPVGKTATLQ	CQESEGYPRP	HYSWYRNDVP	LPT-DSRANP	RFQNSSFHVN
VMTGSVVELR	CQDKEGNPAP	EYIWFKDGTS	LLG-NPKGGT	H-NNSSYTNE
SETGTLVFNA	VHKDDSGQYY	CIASNDAGAA	RCEGQDMEVY	DLNIAGIIGG
HESGILLQFNM	ISKMDSGEYY	CEARNSVGHR	RCPGKRMQVD	VLNISGIIAT
VLVVLIVLAV	ITMGICCAVR	RGCFISSKQD	GESYKSPGKH	DGVNYIRTSE
VVVVAFVISV	CGLGTCYAQR	KGYF--SKET	SFQKGSPASK	-----VTTMG
EGDFRHKSSF	VI			
ENDFRHTKSF	II			

FIG. 3



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Murine and human JAM-2 (CRAM-1)

FIG. 4A

moJAM-2 (CR1)

huJAM-2 (CR1)

[illegible]

moJAM-2 (CR1)

huJAM-2 (CR1)

[illegible]

moJAM-2 (CR1)

huJAM-2 (CR1)

60	70
H L S C I I T S Q T S D P R I E W K R I Q D S Q T S D P R I E W K R I Q D L S C I I T	G Q T Q T O T

moJAM-2 (CR1)

huJAM-2 (CR1)

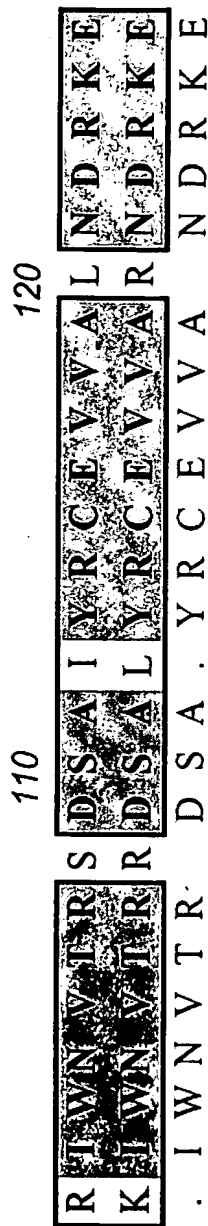
80	90	100
<p> TTYVYFDNKKIQGDLA GR T D V F G K T S L TTYVF FDNKKIQGDLA GR A E I L G K T S L TTYV FDNKKIQGDLA GR . . . G K T S L </p>		



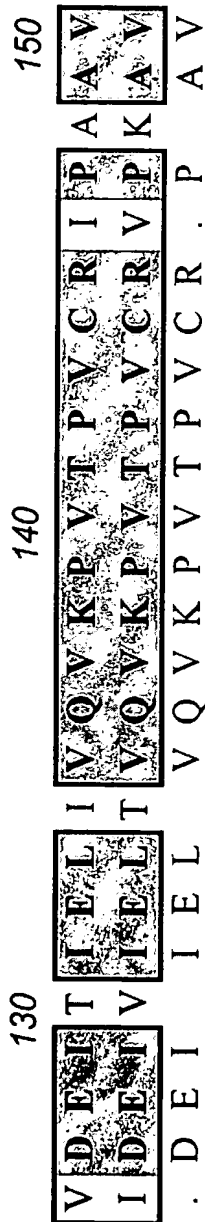
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FIG. 4B Murine and human JAM-2 (CRAM-1)

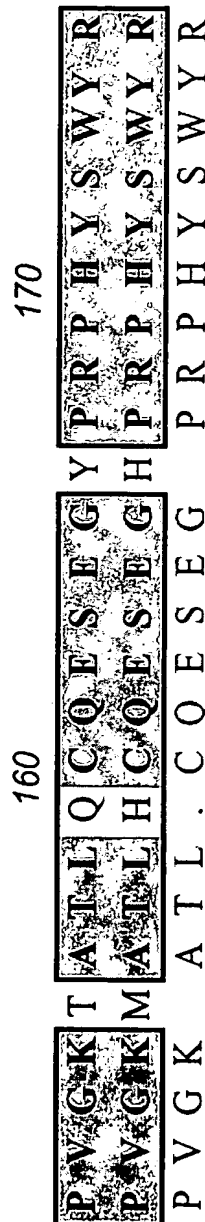
moJAM-2 (CR1)
huJAM-2 (CR1)



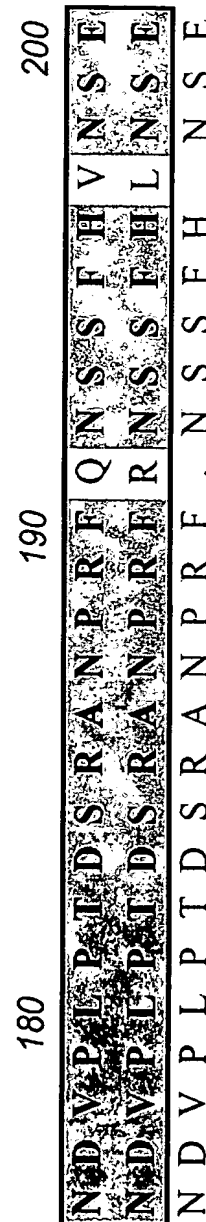
moJAM-2 (CR1)
huJAM-2 (CR1)



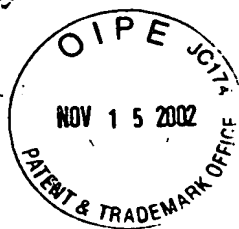
moJAM-2 (CR1)
huJAM-2 (CR1)



moJAM-2 (CR1)
huJAM-2 (CR1)



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FIG. 4C Murine and human JAM-2 (CRAM-1)

210 220

moJAM-2 (CR1) T G T L V F . A V H K D D S G Q Y Y C I A S N D A

huJAM-2 (CR1) T G T L V F . A V H K D D S G Q Y Y C I A S N D A

230 240 250

moJAM-2 (CR1) G A A R C E G Q D M E V Y D L N I A G I I G G V L

huJAM-2 (CR1) G S A R C E Q E M E V Y D L N I G G I I G G V L

G . A R C E O . M E V Y D L N I G I I G G V L

260 270

moJAM-2 (CR1) V V L I V L A V I T M G I C C A Y R R G C F I S S

huJAM-2 (CR1) V V L A V L A L I T L G I C C A Y R R G Y F I N N

V V L V L A . I T . G I C C A Y R R G F I

280 290 300

moJAM-2 (CR1) K Q D G E S Y K S P G K H D G V N Y I R T S E E G

huJAM-2 (CR1) K Q D G E S Y K N P G K P D G V N Y I R T D E E G

K Q D G E S Y K P G K D G V N Y I R T E E G



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FIG. 4D Murine and human JAM-2 (CRAM-1)

moJAM-2 (CR1)	310	320	350	400
huJAM-2 (CR1)				
	D F R H K S S F V I			
moJAM-2 (CR1)	330	340	370	390
huJAM-2 (CR1)				
moJAM-2 (CR1)	360			
huJAM-2 (CR1)				
moJAM-2 (CR1)	380			
huJAM-2 (CR1)				

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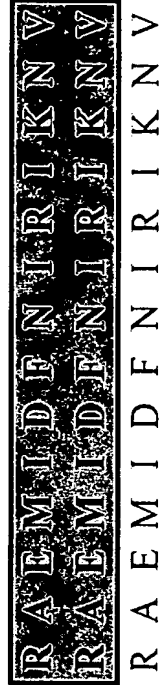
FIG. 5A Murine and human CRAM-2 (JAM-3)

huJAM-3(CRAM-2)	moJAM-3(CRAM-2)	M A R S P Q G L L M L L L L H Y L I V A L D Y H K	10	20	
huJAM-3(CRAM-2)	moJAM-3(CRAM-2)	A N G F S A S K D H R Q E V T V I E F Q E A I L A	30	40	50
huJAM-3(CRAM-2)	moJAM-3(CRAM-2)	C K T P K K T T S S R L E W K K V G Q G V S L V Y	60	70	
huJAM-3(CRAM-2)	moJAM-3(CRAM-2)	Y Q Q A L Q G D F K D	80	90	100

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RAEMIDFNIRIKNV

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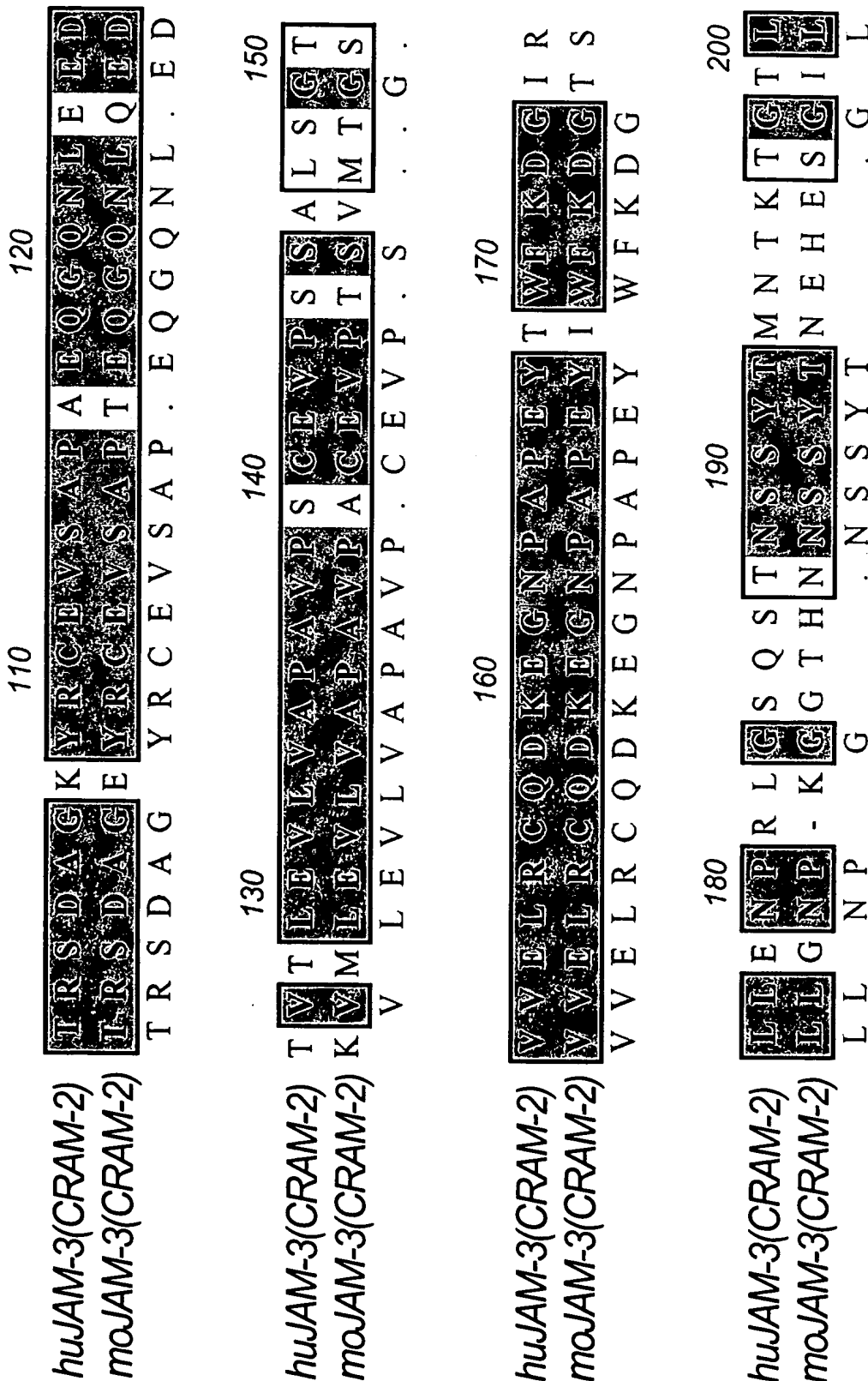
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FIG. 5B Murine and human CRAM-2 (JAM-3)



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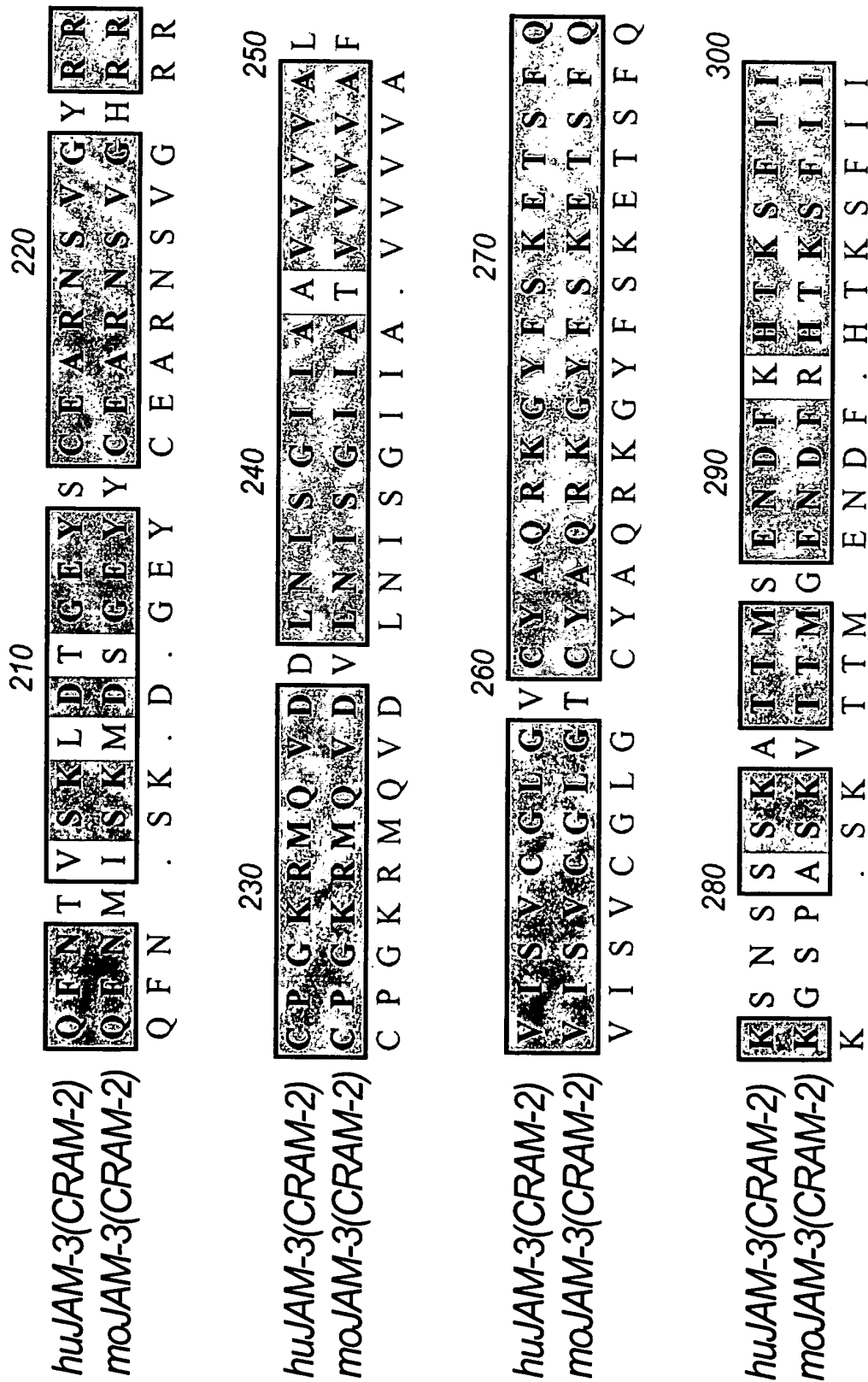
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FIG. 5C Murine and human CRAM-2 (JAM-3)





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>Nucleic acid sequence huCRAM-1/ huJAM-2

ATGGCGCTGAGGCGGCCACCGCGACTCCGGCTCTGCGCTCGGC
TGCCCTGACTTCTTCTGCTGCTGCTTTTCAGGGGCTGCCTGAT
AGGGGCTGTAAATCTCAAATCCAGCAATCGAACCCCACTGGTA
CAGGAATTTGAAAGTGTGGAAGTGTCTTGCATCATTACGGATT
CGCAGACAAGTGACCCCAAGATCGAGTGGAAGAAAATTCAAGA
TGAACAAACACATATGTGTTTTTTTGACAACAAAATTCAGGGA
GACTTGGCGGGTCGTGCAGAAATACTGGGGAAGACATCCCTGA
AGATCTGGAATGTGACACGGAGAGACTCAGCCCTTTATCGCTG
TGAGGTCGTTGCTCGAAATGACCGCAAGGAAATTGATGAGATT
GTGATCGAGTTAACTGTGCAAGTGAAGCCAGTGACCCCTGTCT
GTAGAGTGCCGAAGGCTGTACCAAGTAGGCAAGATGGCAACACT
GCACTGCCAGGAGAGTGAGGGCCACCCCGGCCTCACTACAGC
TGGTATCGCAATGATGTACCACTGCCACGGATTCCAGAGCCA
ATCCAGATTTTCGCAATTCTTCTTTCCACTTAACTCTGAAAC
AGGCACTTTGGTGTTCACTGCTGTTTCAAGGACGACTCTGGG
CAGTACTACTGCATTGCTTCCAATGACGCAGGCTCAGCCAGGT
GTGAGGAGCAGGAGATGGAAGTCTATGACCTGAACATTGGCGG
AATTATTGGGGGGGTTCTGTTGCTCCTTGCTGTACTGGCCCTG
ATCACGTTGGGCATCTGCTGTGCATACAGACGTGGCTACTTCA
TCAACAATAAACAGGATGGAGAAAGTTACAAGAACCAGGGAA
ACCAGATGGAGTTAACTACATCCGCACTGACGAGGAGGGCGAC
TTCAGACACAAGTCATCGTTTGTGATCTGAGACCCGGGTGTGG
CTGAGAGCGCACAGAGCCGCACGTGCACATACCTCTGCTAGAA
ACTCCTGTCAAGGCAGCGAGAGCTGATGCACTCGACAGAGCTA
GACACTCTTCAAAGCTTTTCGTTTGGCAAGGTGACCACTACTC
TTTTACTCTACAAGCCCATGAAAAGAGAAATTTTCTCAAGAGG
ACCCGGAATATAACCCCAAGGAACCAAATGGGTGCGTTTAC
TGAGGTGGGGTCCTTAATTTGTTTTTGGCCTGATTTCCCATGAA
AATAAGGGGTCTTTAAGAGTTTGGTACGTAAAACCCCGCTT
GGGCCTTGGAACACATGTTTACCACCTGCGTTAAAAAAA
AAAAAA

FIG. 6A



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>huCRAM-1/huJAM-2 complete

MALRRPPRLRLCARLPDFFLLLLFRGCLIGAVNLKSSNRTPVV
QEFESVELSCIITDSQTS DPRIEWKKIQDEQTTYVFFDNKIQG
DLAGRAEILGKTSLKIWNVTRRDSALYRCEVVARNDRKEIDEI
VIELTVQVKPVTVPVCRVPKAVPVGKMATLHCQESEGHPRPHYS
WYRNDVPLPTDSRANPRFRNSSFHLNSETGTLVFTAVHKDDSG
QYYCIASNDAGSARCEEQEMEVDLNIIGGIIGGVLVVLAVLAL
ITLGICCAYYRRGYFINNKQDGESYKNPGKPDGVNYIRTDEEGD
FRHKSSFVI

>huCRAM-2/huJAM-3 partial

RAEMIDFNIRIKNVTRSDAGKYRCEVSAPAEQOGONLEEDTVTL
EVLVAPAVPSCEVPSSALSGTVVELRCQDKEGNPAPEYTWFKD
GIRLLENPRLGSOSTNSSYTMNTKTGTLOFNTVSKLDTGEYSC
EARNVSGYRRCPGKRMQVDDLNIISGIIAAVVVVALVISVCGLG
VCYAQRKGYFSKETSFQKSNSSSKATTMSENDFKHTKSFI I

FIG. 6B



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FIG. 7B

t-end
BI6
t-end/BI6



CRAM-1



FIG. 7A

Y R C X A S1
TAY AGN TGY NNN GCY TCY AA

Y R C X A S2
TAY AGN TGY NNN GCY AGY AA

Y Q C X A S1
TAY CRG TGY NNN GCY TCY AA

Y Q C X A S2
TAY CRG TGY NNN GCY AGY AA

Y Y C X A S1
TAY TAY TGY NNN GCY TCY AA

Y Y C X A S2
TAY TAY TGY NNN GCY AGY AA

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gacattcccctcgacatggcgctgagccggcgctgcgacttcgactgtacgcgcgctg 60
 M A L S R R L R L R L Y A R L 15
 cctcacttcttctgctgctcttcagggctgcatgatagaggcagtgaaatctcaaa 120
 P H F L L L L F R G C M I E A V N L K 35
 tccagcaaccgaaaccagtggtacatgaatttgaaagtgtggaattgtcttgcatt 180
 S S N R N P V V H E F E S V E L S (C) I I 55
 acgcactcacagacaagtgaccctaggattgaatggaagaaatccaagatggccaaacc 240
 T H S Q T S D P R I E W K K I Q D G Q T 75
 acatatgtgtatttgacaacaagattcaaggagacctggcaggtcgacagatgtgtt 300
 T Y V Y F D N K I Q G D L A G R T D V F 95
 ggaaaaacttccctgaggatctggaatgtgacacgatcggatttcagccatctatcgctgt 360
 G K T S L R I W N V T R S D S A I Y R (C) 115
 gaggtcgctctaagtaccgaaagaagtgtgatgagattaccattgagttaattgtg 420
 E V V A L N D R K E V D E I T I E L I V 135
 caagtgaagccagtgaccctgtctgcagaattccagccgctgtacctgtaggcaagacg 480
 Q V K P V T P V C R I P A A V P V G K T 155

FIG. 8A



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gcaacactgcagtccaagagagcagggtatccccggcctcactacagctggtaaccgc 540
A T L Q (C) Q E S E G Y P R P H Y S W Y R 175
aatgatgtgccactgcctacagattccagagccaatcccagggtccagaattcctcttc 600
N D V P L P T D S R A N P R F Q N S S F 195
catgtgaactcggagacaggcactctggttttcaatgctgtccacaaggacgactctggg 660
H V N S E T G T L V F N A V H K D D S G 215
cagtactactgcattgcttccaatgacgcagggtgcagccagggtgtgaggggcaggacatg 720
Q Y Y (C) I A S N D A G A R C E G Q D M 235
gaagtctatgattgaacattgctgggattattggggagtccttgtgtccttattgtt 780
E V Y D L N I A G I I G G V L V L I V 255
cttgctgtgattacgatgggcattctgtgtgcgtacagacgaggctgttcttcacgacgt 840
L A V I T M G I C C A Y R R G C F I S S 275
aaacaagatggagaagctataagagcccagggaagcatgacggtgttaactacatccgg 900
K Q D G E S Y K S P G K H D G V N Y I R 295
acgagtgagggggtgacttcagacacaaaatcgtccttgttatcttgacacctgtcggt 960
T S E E G D F R H K S S F V I * 310

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FIG. 8B



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gggagagacatgcaagtacctctgttggaagctggtcacagggtgctgtgagcccca 1020
gctcctgacaaagcccccgggcagaagcttttgttttgccaaagtgtgatgactcctt 1080
ccttccttccttcctttaaaggccacaagaataaaagggaagcctcctgaagatggat 1140
gtagacacagattgttgctagcctgacctcattatgggattagggtagcttcaaggcc 1200
tttctggtcctcctcccatgagggaatttggaactgttttgcccaggctgttta 1260
gctgccaggacaactggcagagagaggtgagggctgggctgcagtagcagcaggca 1320
acagcctgatgcctgtgacagtgcgccaggagggttttcaggcagtgcccttgctccctgg 1380
accctgacccaccgtgtgcctctgttgattggccagtactgtcatttccatcctggaga 1440
atgtgtttggaatcagcattttataaaaaaccctcctcccaagagatgccaggagataggagaac 1500
ggaagagggtctgaccaggaaactctcctcccaagagatgccaggagataggagaac 1560
ctgtctgtcttaagtctgaaatgttactgaagtctcctttctattgggtcttgcttattt 1620
tataaaaaatttaacattctaaattttgctagagatgtattttgattactgaaaaatttcta 1680
tataaactgtaaatatattgccatacagtggttcaaaaaactattttttataatgagttc 1740
aactaagggtagaaggcttgggctgctagtgtttaattggaaaaataccagtagtaagtc 1800
ttttaaggagttttcttaaggaggctggctgaatatcctttgttcaaaagaagttag 1860
catttttcataagaaaaacttactctgtctgaccactgttgcttaggaaaccattaaagaa 1920
ttccaatctaaaaaaaaaaaa

FIG. 8C



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O.G. FIG.		SUBCLASS
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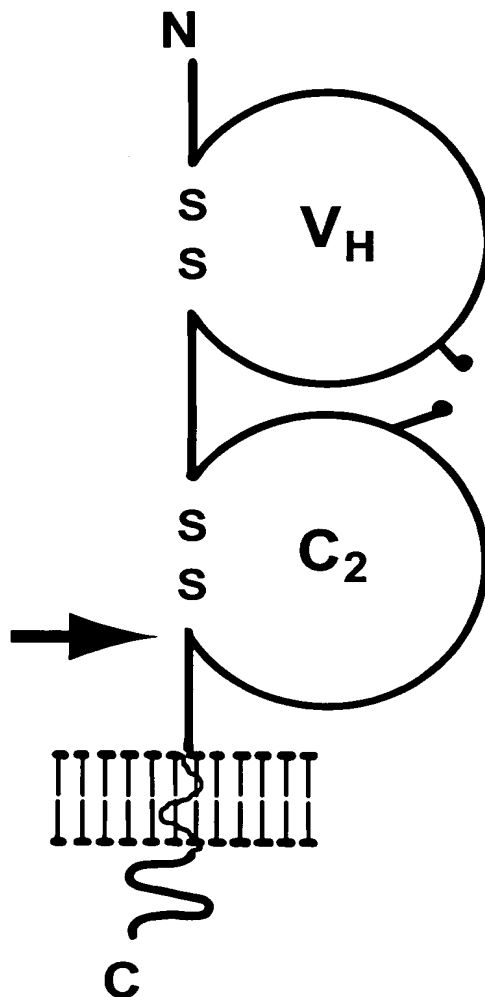


FIG. 8D



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FIG. 9A

APPROVED	O.G. FIG.
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CRAM-1 :
CRAM-2 :
JAM :
Consensus :
20
MAISRRRLRLLYARLPHEFLFLFR
MARSPOGLMLLLHLLTVALDY
MGTEGKAGRKLLFLFTSMILG
r q l Llh f l
40

CRAM-1 :
CRAM-2 :
JAM :
Consensus :
60
GCMIEAVNLKSSNRNPVHFEFESVE
HKANGFSASKDHRQEVTVIEFQEA I
SLVQKGGSVYLAQSDVQVPEMESTK
q k v V Ef S

CRAM-1 :
CRAM-2 :
JAM :
Consensus :
80
LS C I I T H S Q T S D P R I E W K K I O D G Q T
L A C K - T P K K T T S S R L E W K K V G Q G - V
L T C - - T Y S G F S S P R V E W K F V O G S T T
L C T s t s s p R E W K K c g t
* *
100

CRAM-1 :
CRAM-2 :
JAM :
Consensus :
100
LYVYFDNKI QGDLAGRTDVEFGKTS L
SLVYVYQOALOGDFKDR AEMID-FNI : 95
ALVCYNISQITAPVADR V-TESSEGI : 93
LVV i o c c d a d r f i



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APPROVED	O.G. FIG.
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FIG. 9B

* 120

CRAM-1 : RIWNVTRSDSAIYRCCEVVALNDR-K
CRAM-2 : RIKNVTRSDAGEYRCCEVSAPTQGO
JAM : TFSSVTRKDNGEYTCMVS--EEGGO
Consensus : ri nVTRsd geYrCeVsa

140

*

CRAM-1 : EVDEITIELIIVQVKPVTVCRIIPAA
CRAM-2 : NLEQEDKVMLEVLVAPAVPACVPTS
JAM : NYGEGSIHLTVLPVPSKPTISVPS
Consensus : E L VLV P P C P S

160

*

CRAM-1 : VPGKTATLQCOSETEGYPRPHYSWY
CRAM-2 : VMTGSVVELRCODKEGPNPAPPEYIWF
JAM : VTIGNRAVLTCSEHDGSPPEYSWF
Consensus : V G a L Cq G P peYsw

180

200

CRAM-1 : RNDVPLPT-DSRANPRFQNSSFFHVN : 198
CRAM-2 : KDGTSLLG-NPKGGTH-NNSSYTNE : 193
JAM : KDGTSMILTADAKKTRAFHNSSFTID : 191
Consensus : k c s lE k NSS t



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FIG. 9C

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SE TGT L V F N A V H K D D S G Q Y Y C I A S N
H E S G I L Q F N M I S K M D S G E Y Y C E A R N
P K S G D L Y F D F V T A F D S G E Y Y C Q A Q N
e s G L F k D S G Y Y C A N

CRAM-1 :
CRAM-2 :
JAM :
Consensus :

240

*

D A G A A - R C E G Q D M E V Y D L N I A G I I G
S V G H R - R C P G K R M Q V D V L N I S G I I A
G Y G T A M R S E A A H M D A V E L N V G G I V A
G a R c e q M v L N G I a

CRAM-1 :
CRAM-2 :
JAM :
Consensus :

260

G V L V V L I V L A V I T M G I C C A Y R R G C F
T V V V V A F V I S V C G L G T C M A O R K G Y F
A V L V T L I L L G L L I F G M F A Y S R G Y F
V L V V L I V L v G c A V R R G M F

CRAM-1 :
CRAM-2 :
JAM :
Consensus :

280

300

I S S K Q D G E S Y K S P G K H D G V N Y I R T S : 297
- - S K E T S F Q K G S P A S K - - - - V T M : 285
- - - - E T K K G T A P G K K V I Y S Q P S T R : 287
s k t s p q k k T

CRAM-1 :
CRAM-2 :
JAM :
Consensus :



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APPROVED	O.G. FIG.
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FIG. 9D

CRAM-1	:	EEGD	FRHKSS	SVI	:	310
CRAM-2	:	GEND	FRHTKS	FI	:	298
JAM	:	SEGE	FKOTSS	FLV	:	300
Consensus	:	Eq	Frhts	SF		



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APPROVED BY DRAFTSMAN	O.G. FIG.	
	CLASS	SUBCLASS

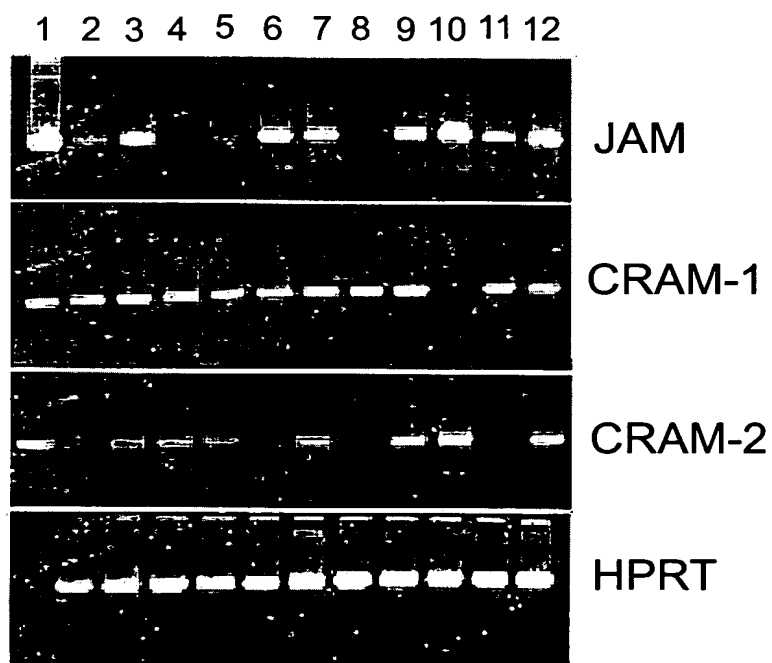


FIG. 10A



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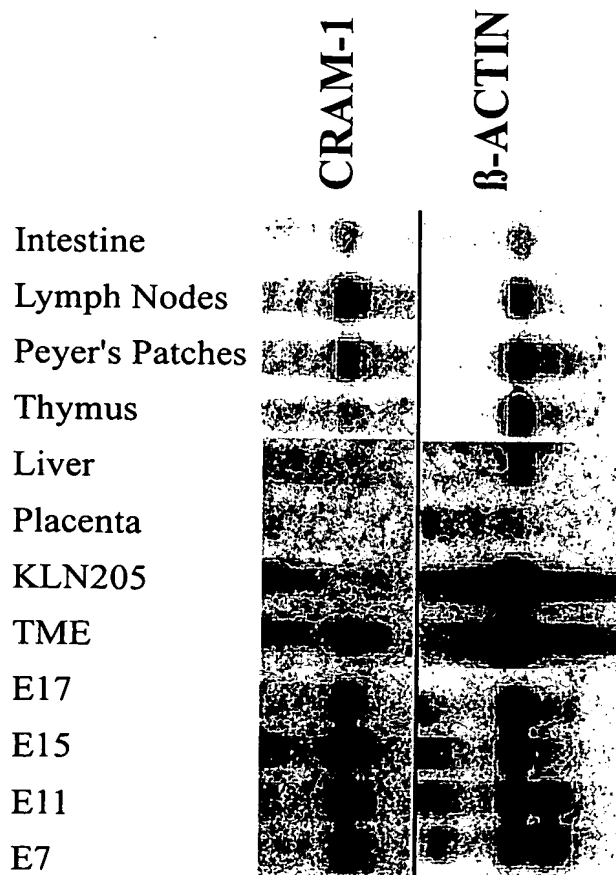
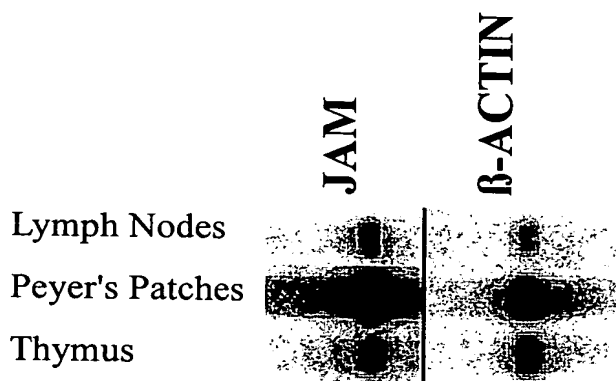
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FIG. 10B

APPROVED	O.G. FIG.	SUBCLASS
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FIG. 11A

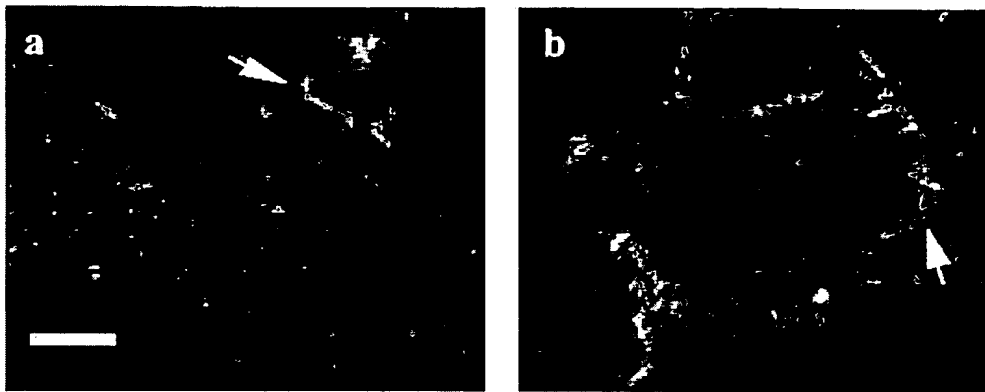
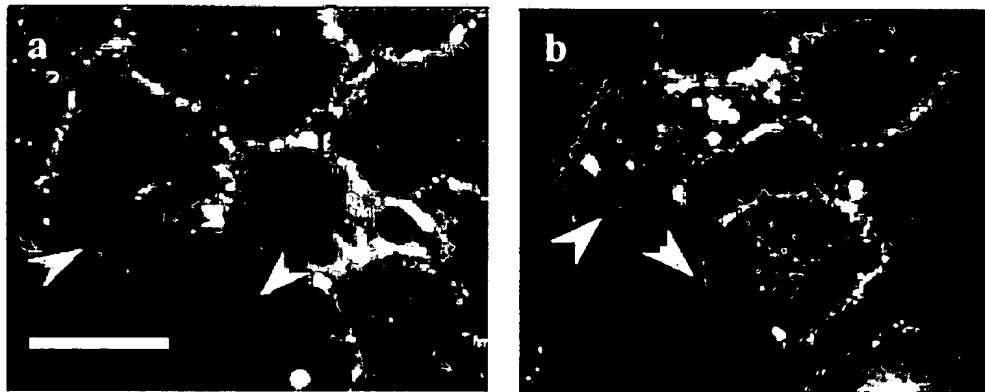


FIG. 11B



APPROVED BY DRAFTSMAN	O.G. FIG. CLASS	SUBCLASS
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APPROVED BY DRAFTSMAN	O.G. FIG.	
	CLASS	SUBCLASS

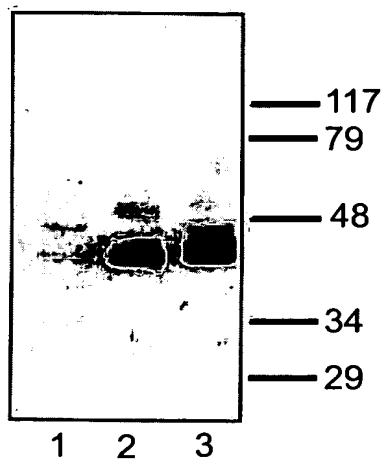


FIG. 11C

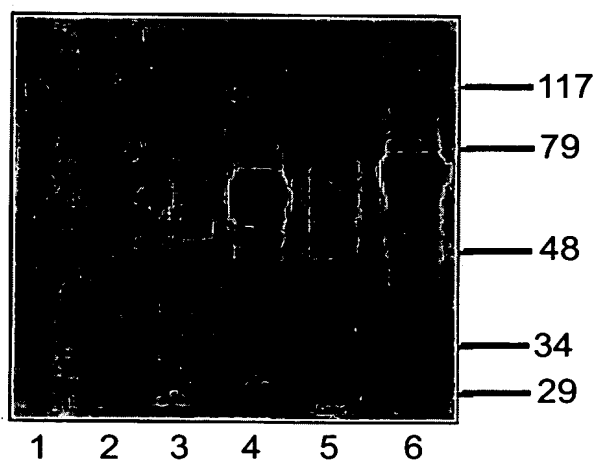


FIG. 11D



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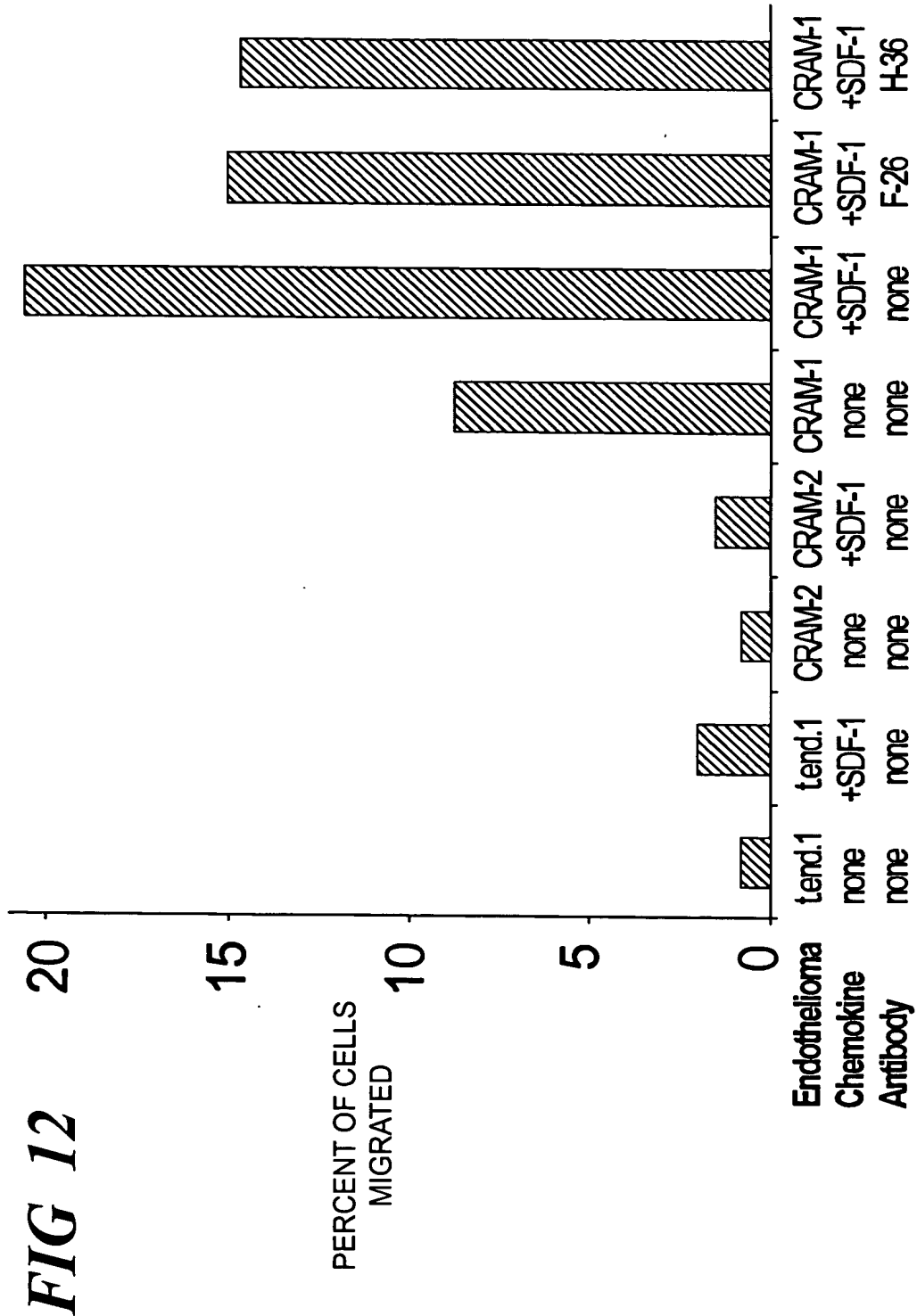
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APPROVED	O.G. FIG.	
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O.G. FIG.	
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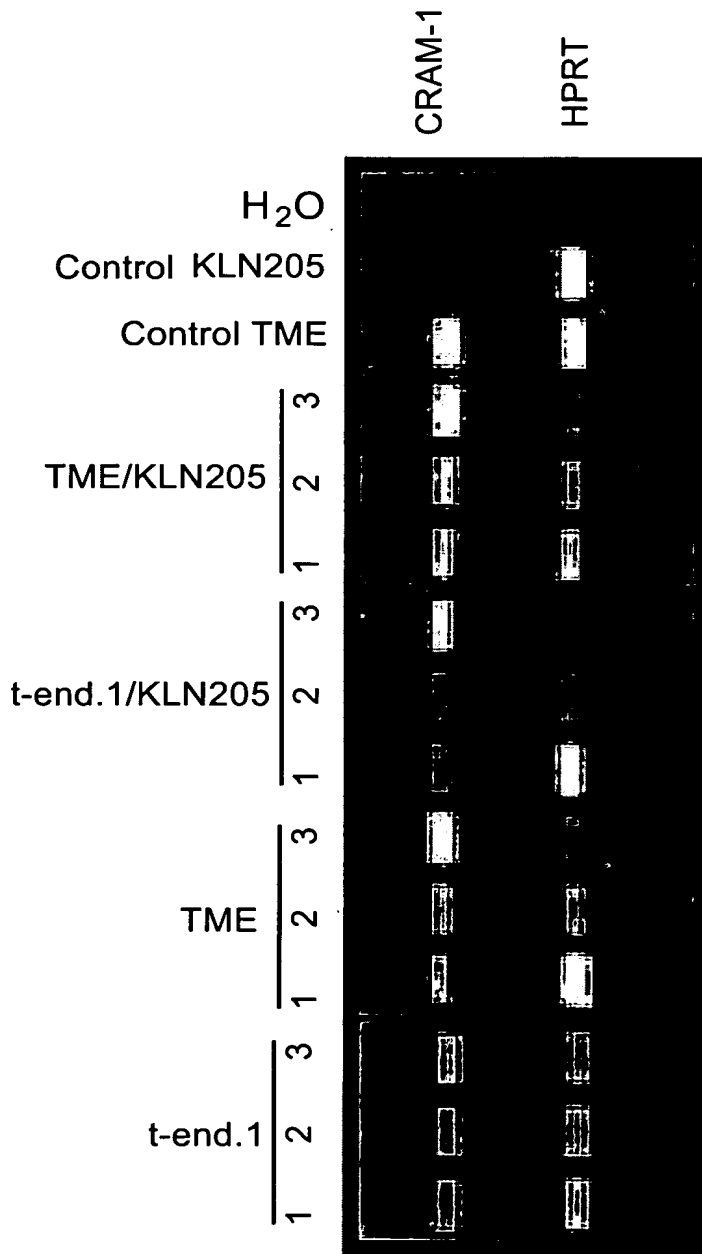


FIG. 13



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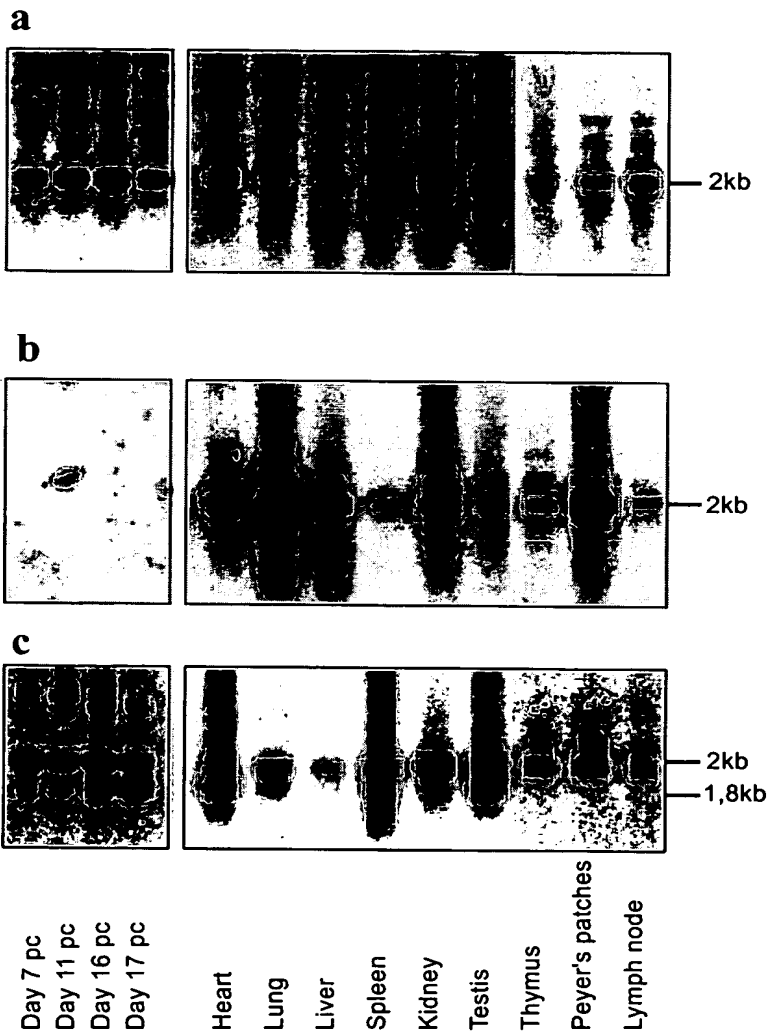
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APPROVED BY DRAFTSMAN	O.G. FIG.	
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FIG. 14





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O.G. FIG.	
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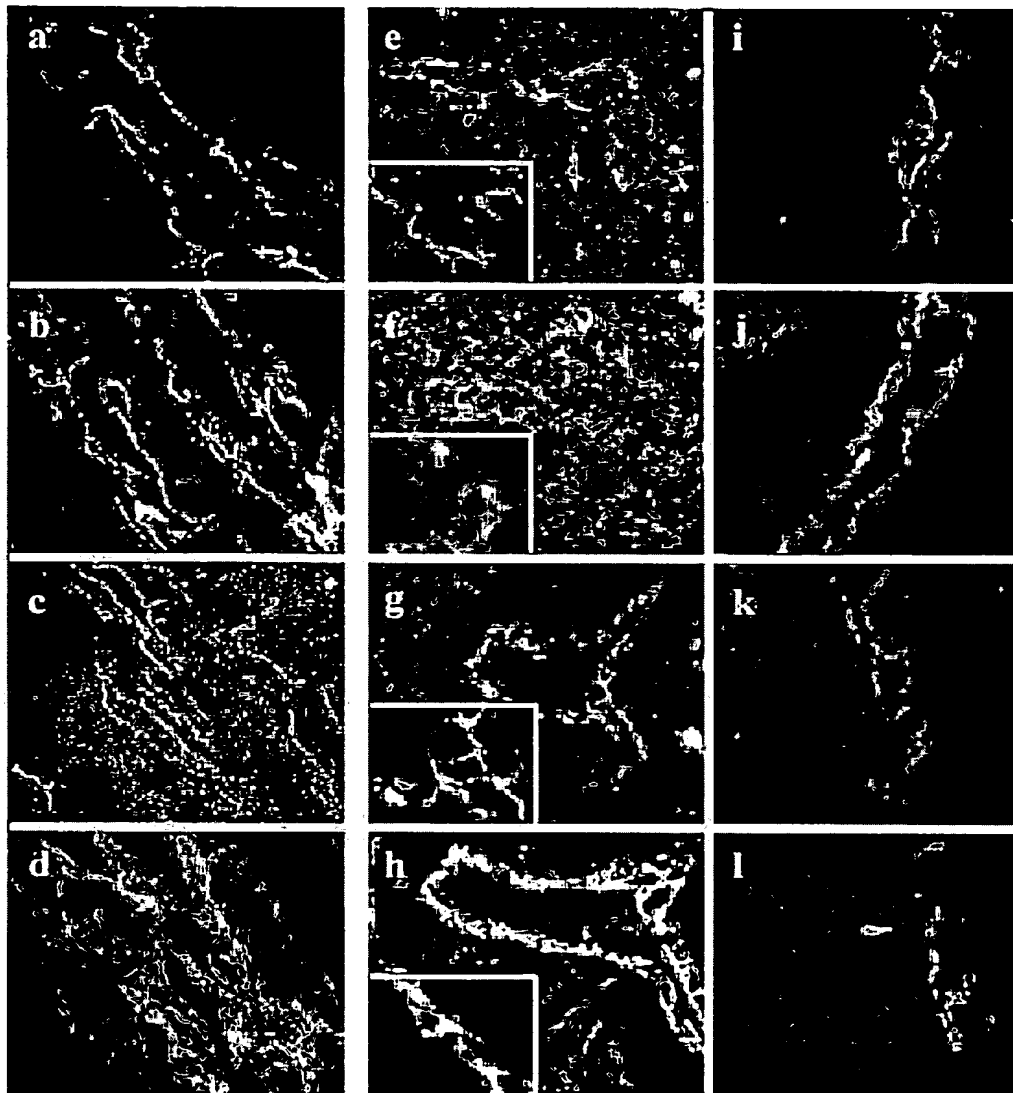


FIG. 15

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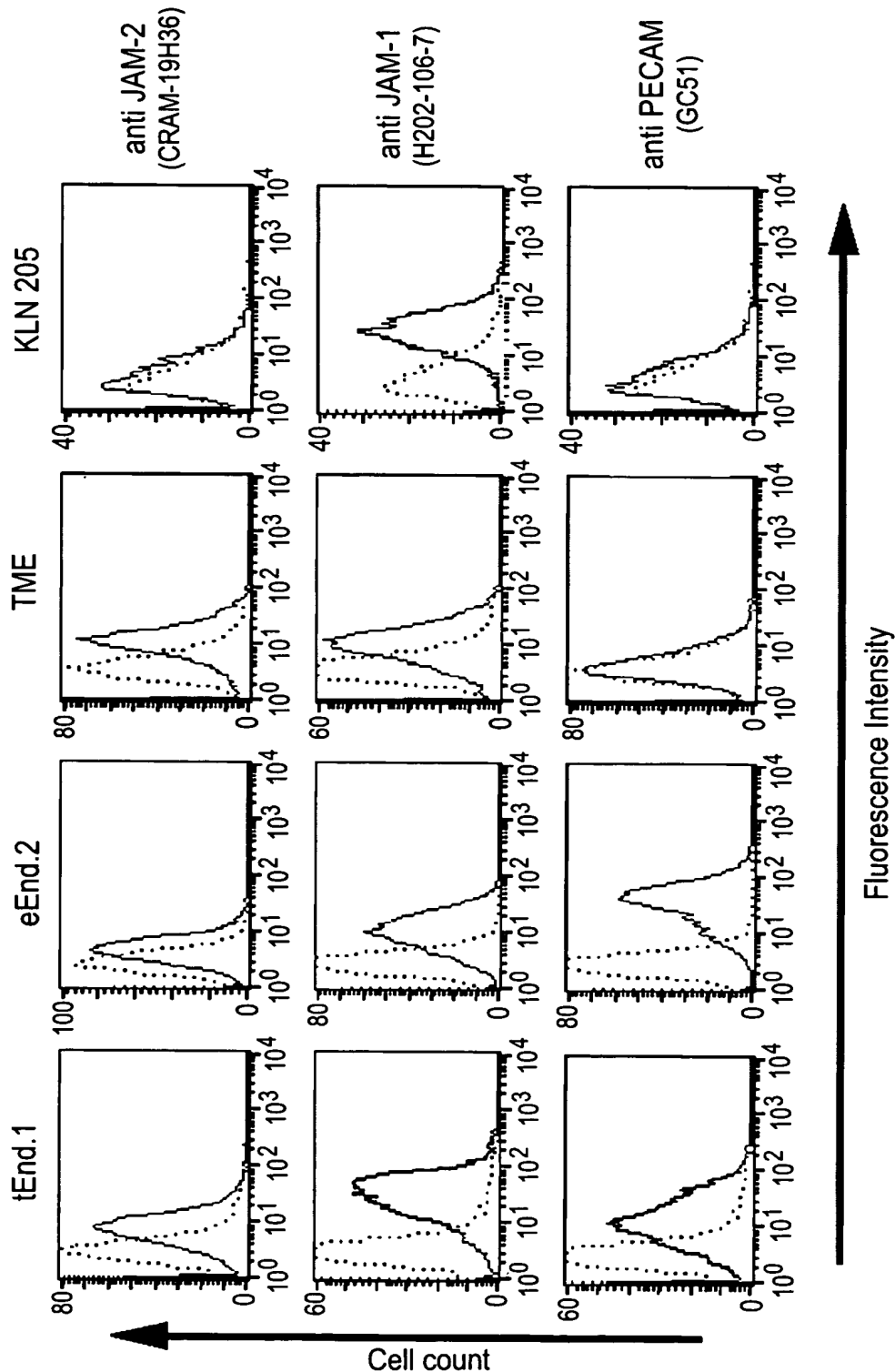
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APPROVED	O.G. FIG.	
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FIG. 16A



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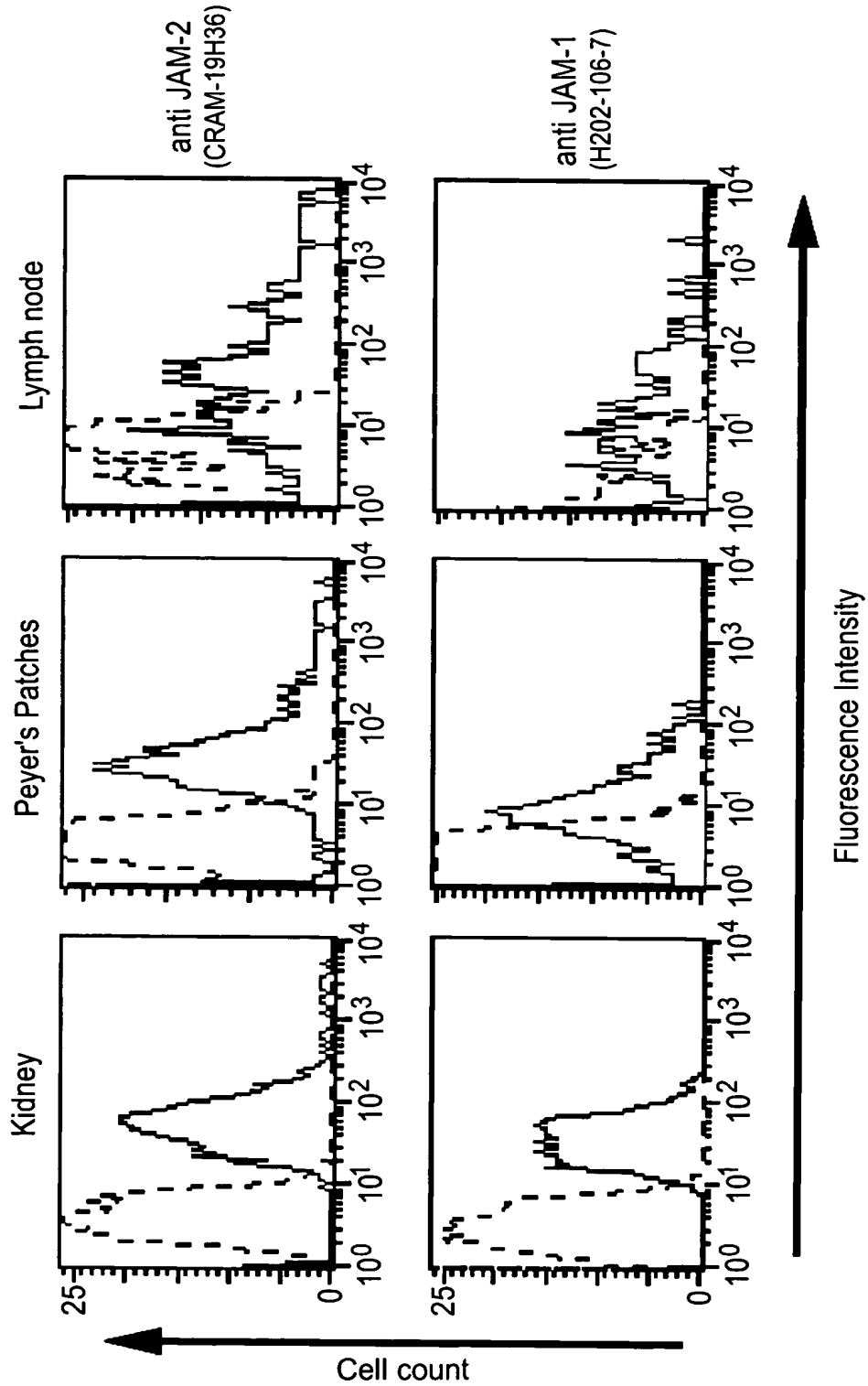
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FIG. 16B



APPROVED	O.G. FIG.	
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APPROVED BY DRAFTSMAN	O.G. FIG.	
	CLASS	SUBCLASS

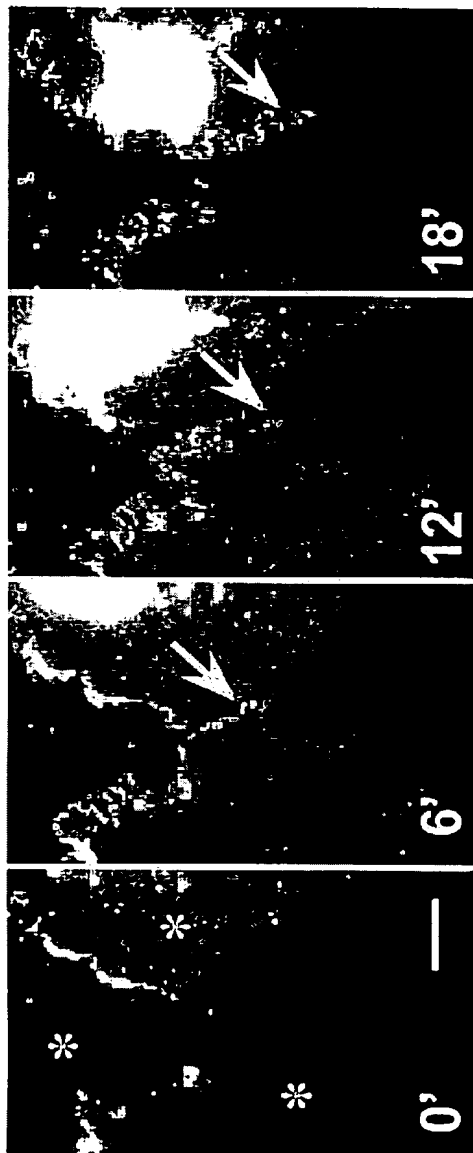


FIG. 17A

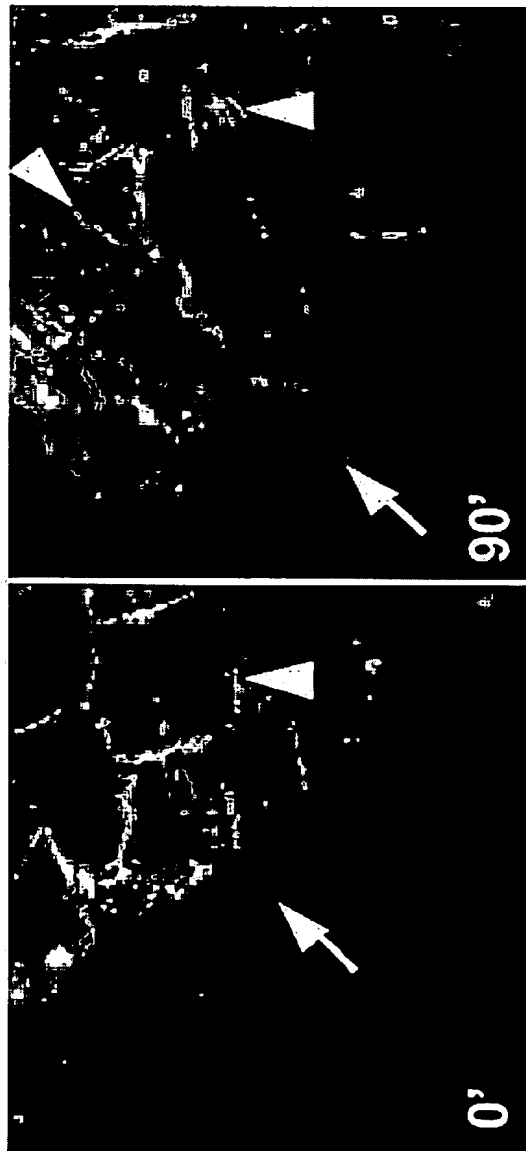


FIG. 17B



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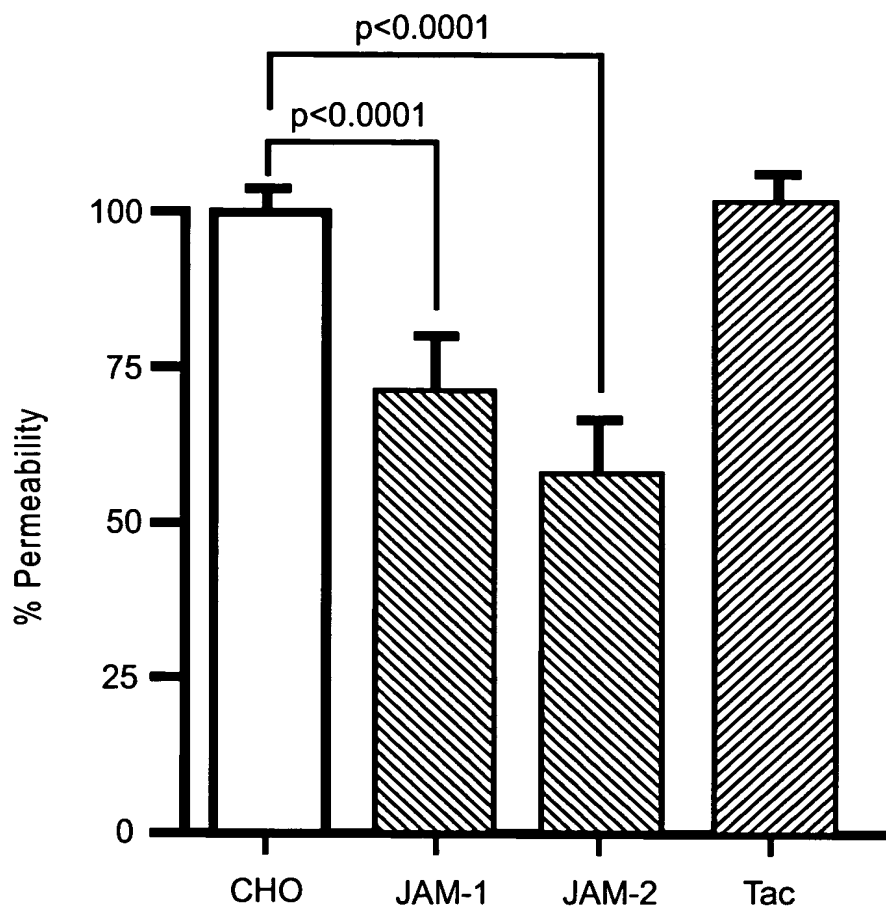


FIG. 18

APPROVED	O.G. FIG.	
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APPROVED	O.G. FIG.	
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Basal → Apical

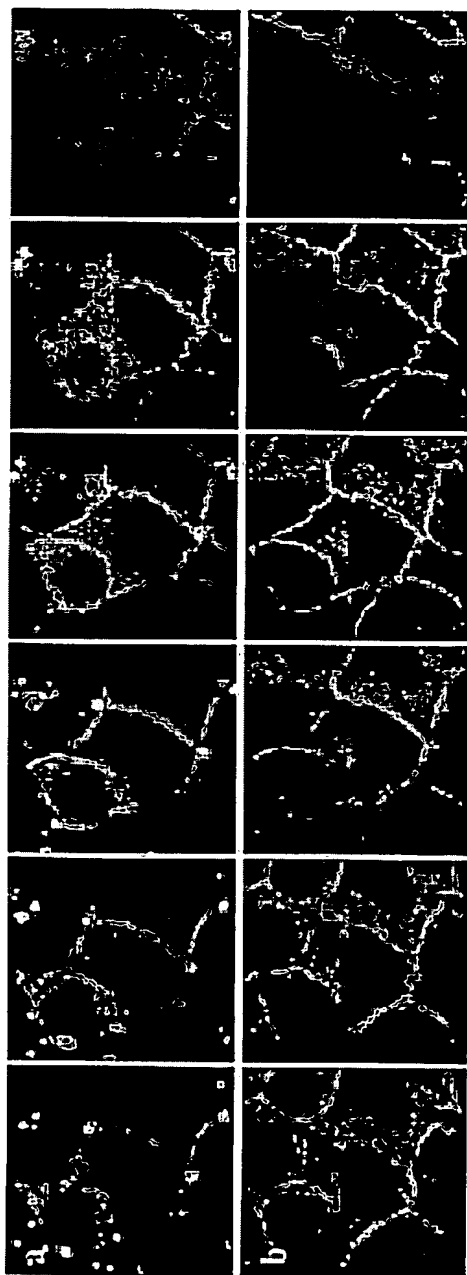


FIG. 19A

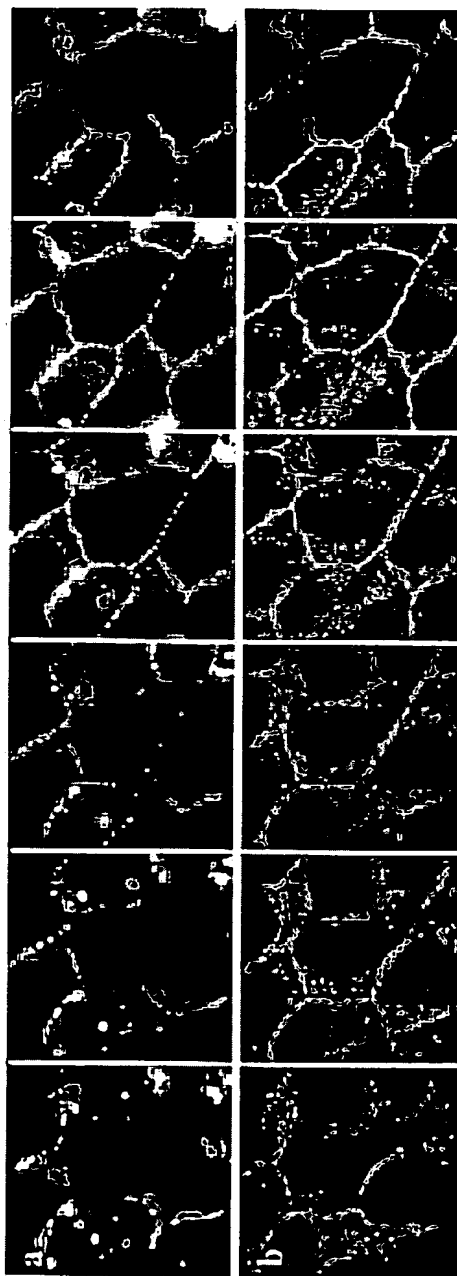


FIG. 19B



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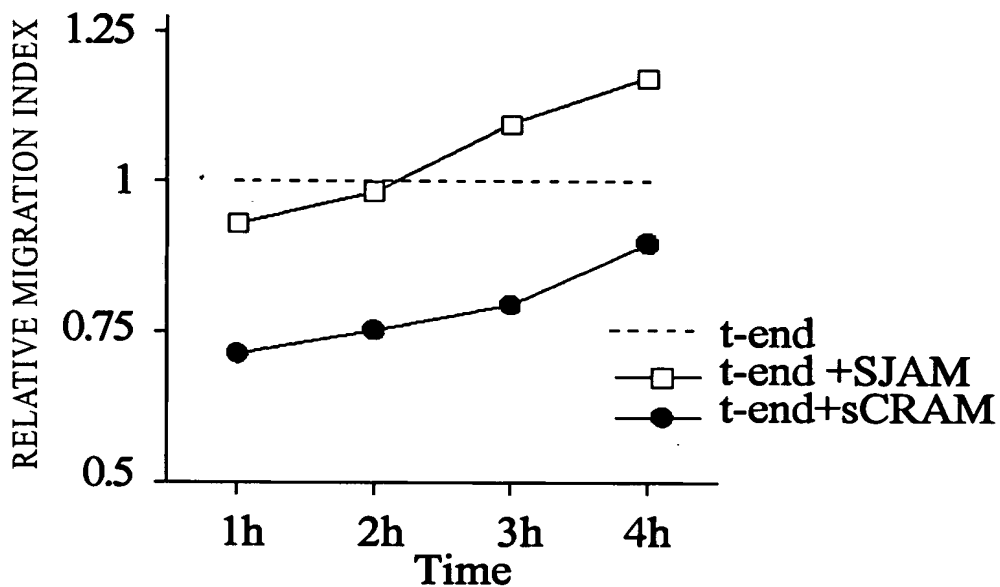
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FIG. 20A



APPROVED	O.G. FIG.	SUBCLASS
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APPROVED	O.G. FIG.	
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FIG. 20B

